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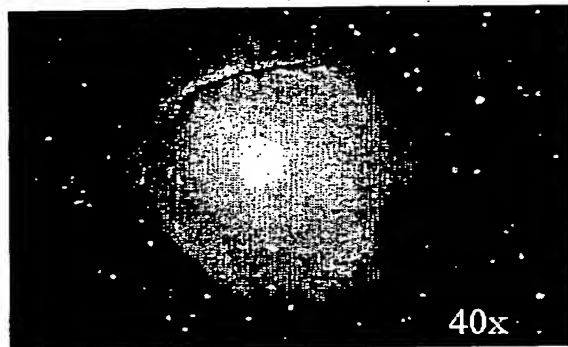
Figure 1A

Figure 1B

### hES cells differentiate in co-culture with END-2 cells

Bm shows an area of beating muscle; cy shows one on many cystic embryonic endoderm structures

Undifferentiated hES colony on MEFs



hES after 14 days in co-culture with END-2 cells



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Figure 2

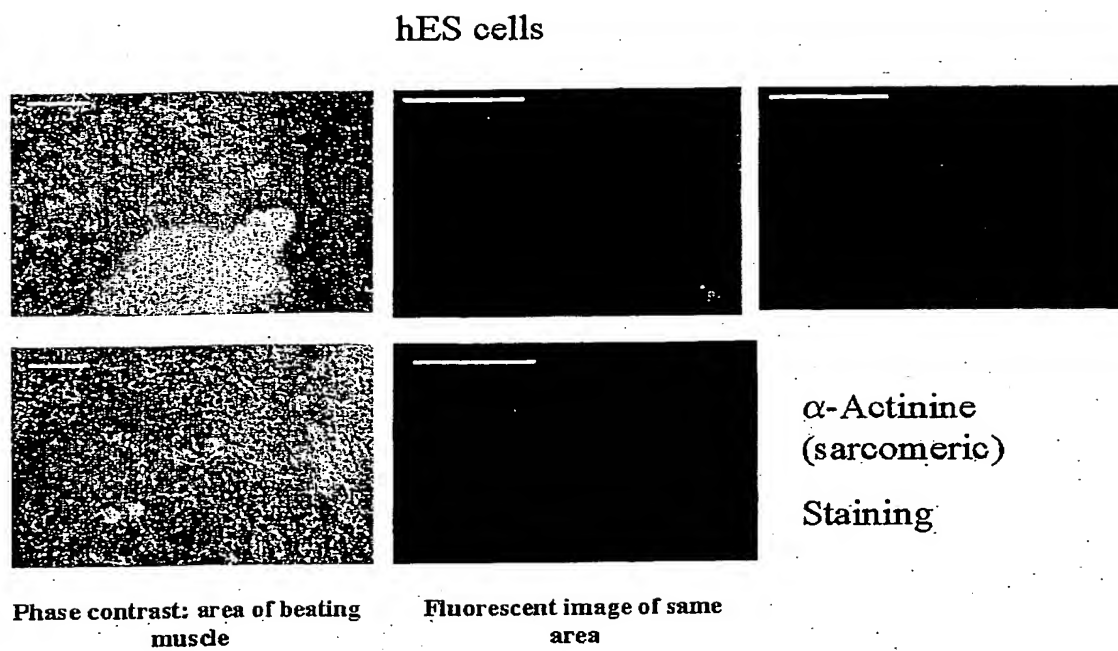
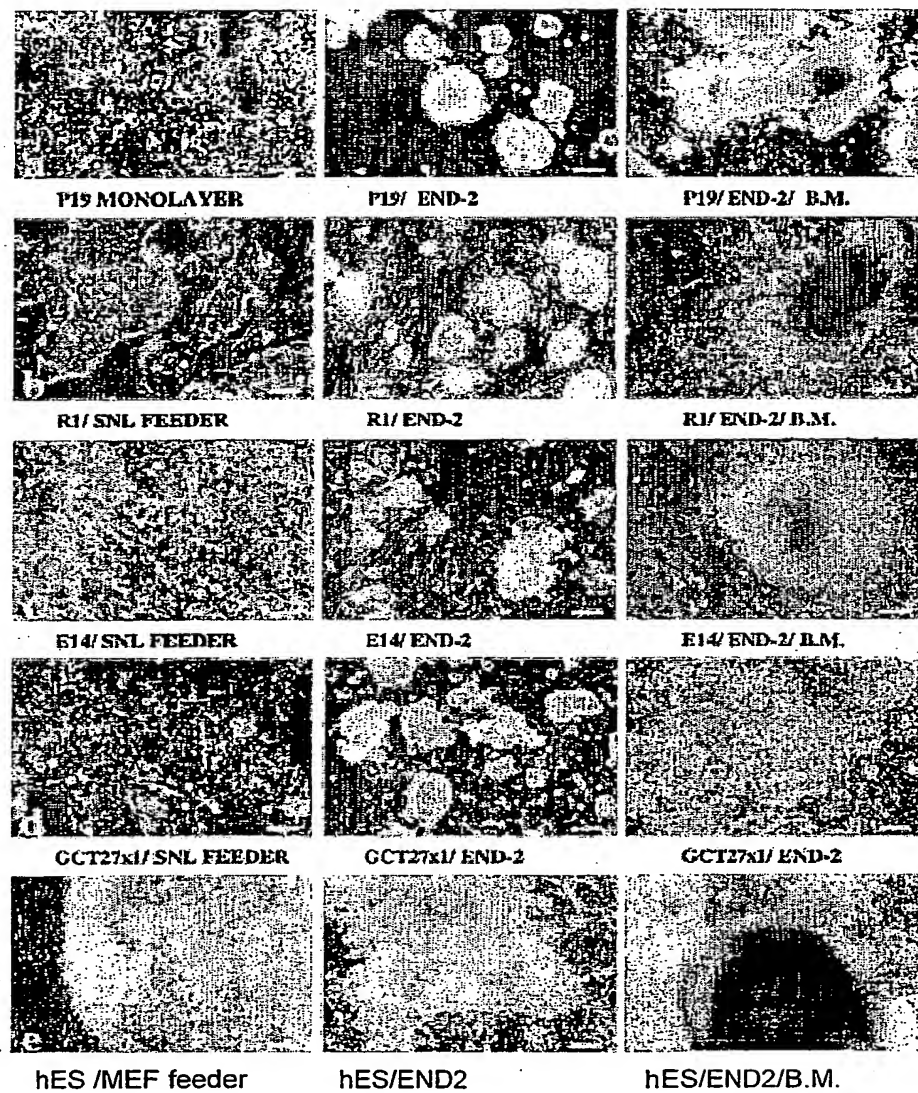


Fig.3.



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Fig. 4 Action potentials from non-dissociated hES cardiomyocytes

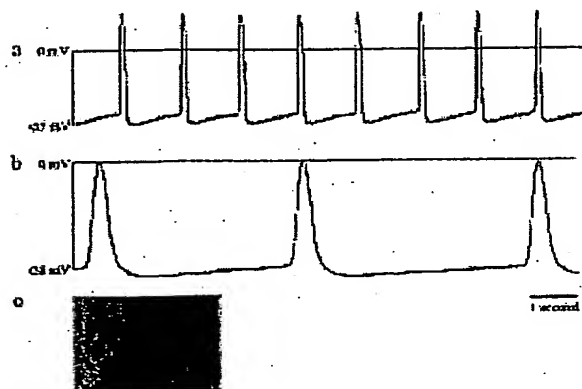
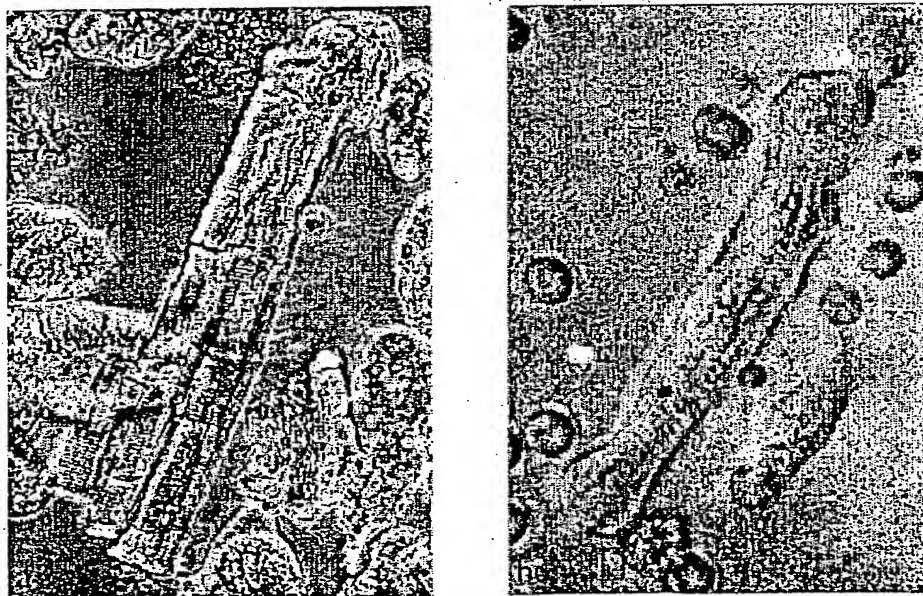
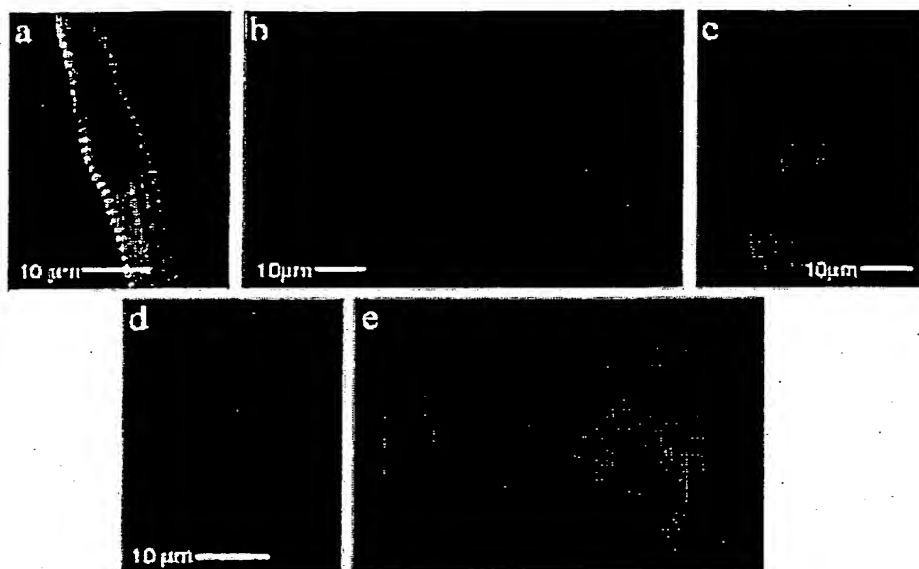


Fig. 5. Adult human cardiomyocytes



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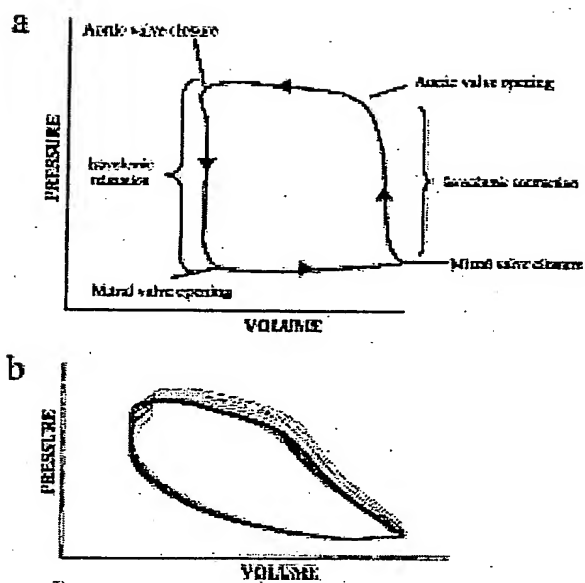
Fig 6.



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Fig. 7

control

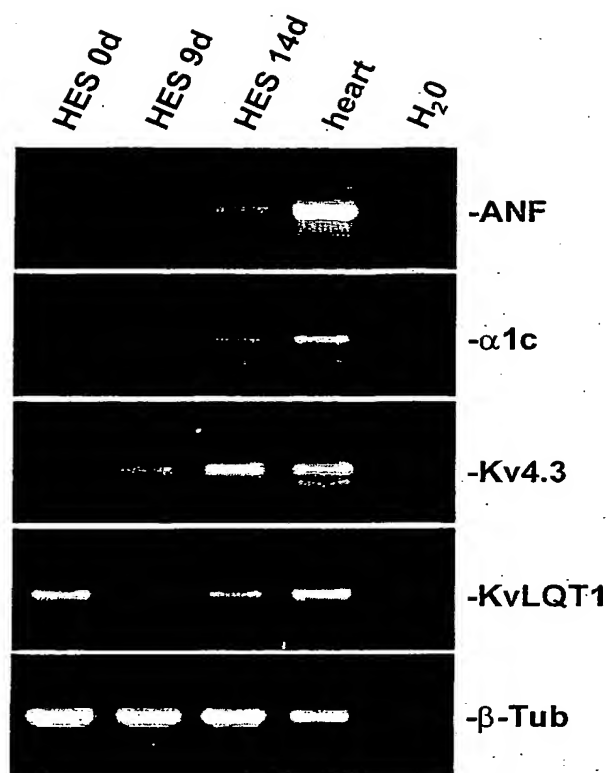


5 Post-infarct

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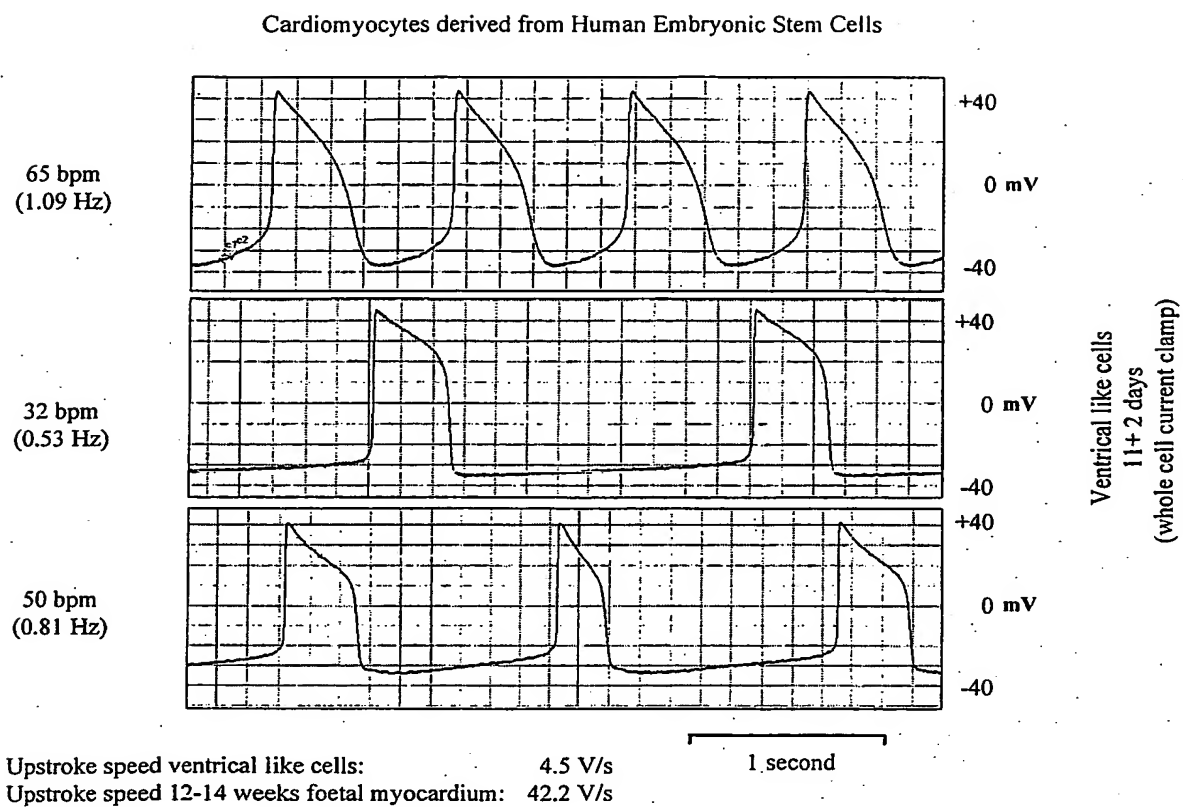
Figure 8





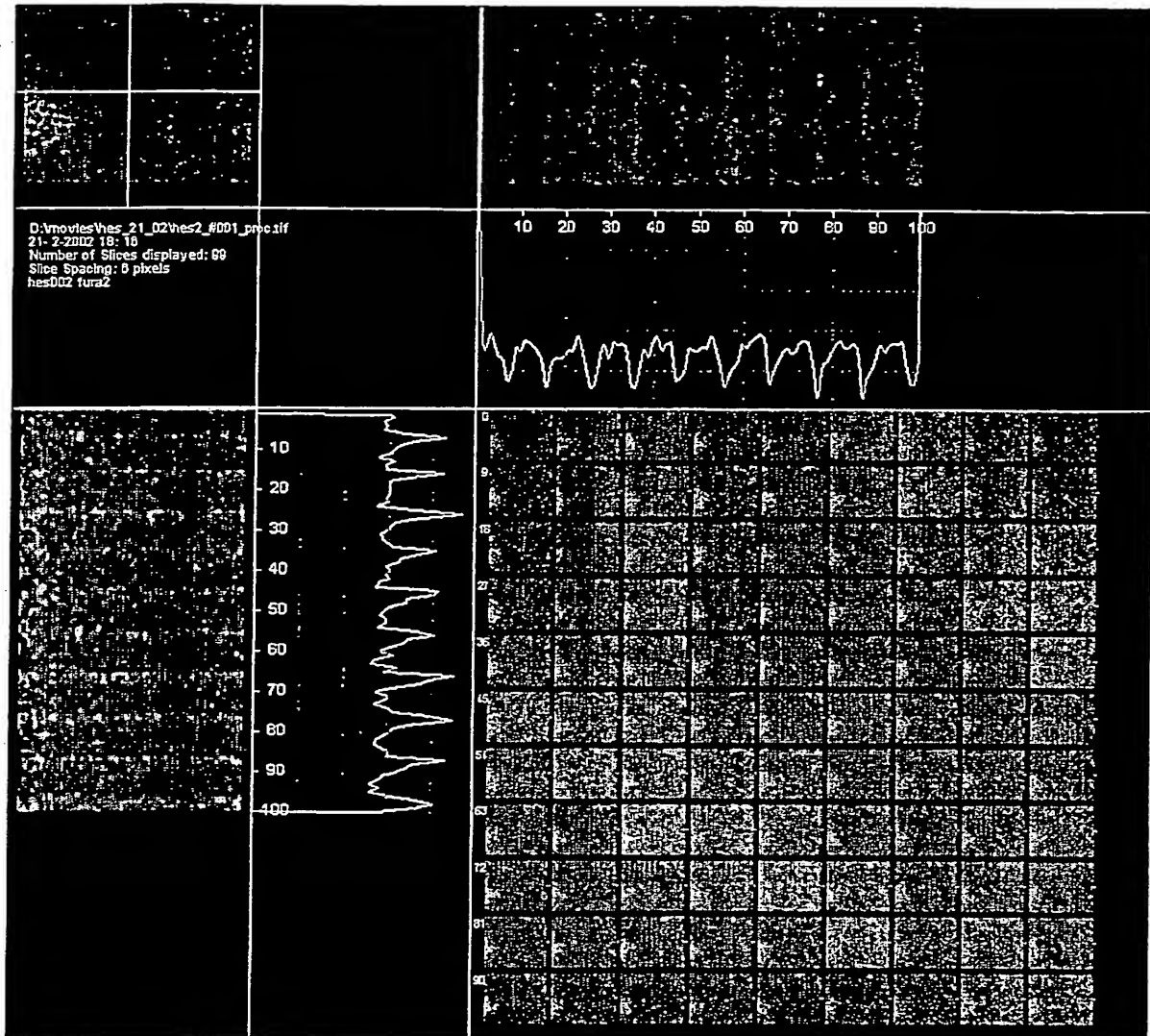
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Figure 9A



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Figure 9B



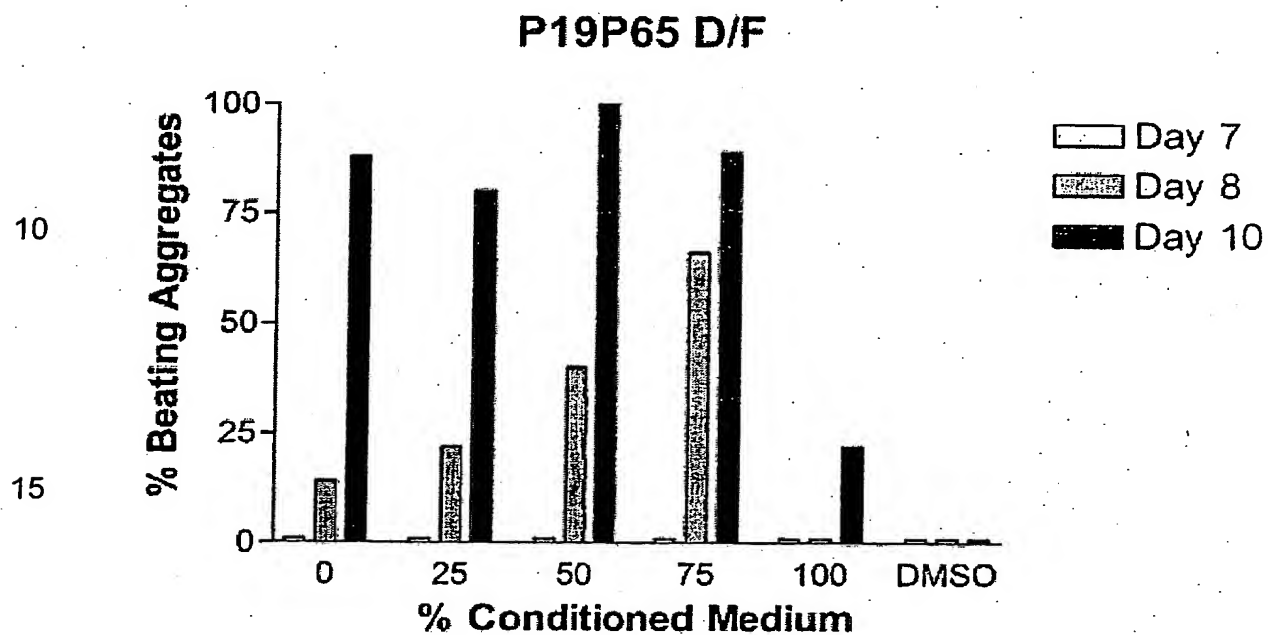
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Figure 10A

Bioassay : non-feeder dependent embryonal carcinoma cells P19

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Endoderm (END2)-conditioned medium induces beating aggregates of P19 EC cells in a dose-dependent manner



N.b. Background 0-5% in non-conditioned medium with DCC-FCS

2 of 5 P19 clones here respond to END2-CM; feeder dependent hES and mES do not.

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Figure 10B

